

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0013	Overall LMA Rating	Total LMA Miles				
Sutter Maintenance Yard Maintenance Area 0013	A	41.97				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.03		0.03	0.07%		
Encroachments	0.59		0.59	1.41%	7.59	
Animal Control	0.03		0.03	0.07%		
Erosion / Bank Caving	0.02		0.02	0.05%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.02%		
<i>LMA Totals:</i>	0.68	0.00	0.68	1.62%	7.59	0.00

Unit No. 01 Cherokee Canal RB	Overall Unit Rating	Total Unit Miles				
MA0013	A	18.87				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Trim / Thin Trees	0.03		0.03	0.16%		
Encroachments	0.05		0.05	0.27%	1.59	
Animal Control	0.01		0.01	0.05%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.05%		
<i>Unit Totals:</i>	0.10	0.00	0.10	0.53%	1.59	0.00

Unit No. 02 Cherokee Canal LB	Overall Unit Rating	Total Unit Miles				
MA0013	A	23.10				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.54		0.54	2.34%	6.00	
Animal Control	0.02		0.02	0.09%		
Erosion / Bank Caving	0.02		0.02	0.09%		
<i>Unit Totals:</i>	0.58	0.00	0.58	2.51%	6.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 01 Cherokee Canal			Right	18.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/28/2011 - 4/28/2011		12/7/2011 - 12/7/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Jason Cooper Sutter Yard		Jason Cooper Sutter Yard	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal						Right	18.87	12/07/2011 12/07/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.76	0.78	Earthen Levee	Encroachments	LS	M	Equipment	39.587905 ° -121.700822 °	39.587505 ° -121.700880 °	12 Y
2	6.51	7.09	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.508928 ° -121.714842 °	39.501438 ° -121.719715 °	3 Y
3	6.63	6.63	Earthen Levee	Encroachments	LS	M	Material	39.507337 ° -121.715693 °	39.507337 ° -121.715693 °	2 Y
4	9.84	9.87	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	39.467170 ° -121.743887 °	39.466860 ° -121.744108 °	5 Y
5	9.89	9.89	Earthen Levee	Encroachments	LS	M	Material	39.466635 ° -121.744228 °	39.466635 ° -121.744228 °	10 Y
6	11.75	11.76	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Small erosion pocket, likely caused by the irrigation diversion structure. [2011 Site ID: CHK_11-7_R]	39.442821 ° -121.759851 °	39.442738 ° -121.759908 °	11 Y
7	14.42	14.42	Earthen Levee	Encroachments	LS	M	Garbage	39.412752 ° -121.788662 °	39.412752 ° -121.788662 °	4 Y
8	14.46	14.46	Earthen Levee	Animal Control	LS	W	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.412328 ° -121.789342 °	39.412328 ° -121.789342 °	1 Y
9	16.18	16.18	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	39.396920 ° -121.813808 °	39.396920 ° -121.813808 °	6 Y
10	16.45	17.42	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.394523 ° -121.817630 °	39.385580 ° -121.831282 °	7 Y
11	17.48	17.48	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.385023 ° -121.832240 °	39.385023 ° -121.832240 °	8 Y
12	17.71	17.75	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.382943 ° -121.835447 °	39.382635 ° -121.836012 °	9 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.87	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.76
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the equipment along the landside toe of the levee.

rduffey_f_20110927_428.jpg



Levee Mile Report Line	2
Start Levee Mile	6.51
End Levee Mile	7.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_424.jpg



Levee Mile Report Line	3
Start Levee Mile	6.63
End Levee Mile	6.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a concrete block along the toe.

rduffey_f_20110927_423.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.87	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	9.84
End Levee Mile	9.87
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of trees that need to be trimmed along the toe.

rduffey_f_20110927_426.jpg



Levee Mile Report Line	5
Start Levee Mile	9.89
End Levee Mile	9.89
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a trailer & material along the L/S toe.

rduffey_f_20111208_584.jpg



Levee Mile Report Line	6
Start Levee Mile	11.75
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_CHK_11-7_R_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.87	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	11.75
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_CHK_11-7_R_2.jpg



Levee Mile Report Line	7
Start Levee Mile	14.42
End Levee Mile	14.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of garbage along the L/S slope.

rduffey_f_20111208_583.jpg



Levee Mile Report Line	8
Start Levee Mile	14.46
End Levee Mile	14.46
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes along the L/S slope.

rduffey_f_20111208_582.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.87	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	16.45
End Levee Mile	17.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the Ag ditch along the toe.

rduffey_f_20110927_427.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 02 Cherokee Canal			Left	23.10
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/28/2011 - 4/28/2011		12/7/2011 - 12/7/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Cherokee Canal						Left	23.10	12/07/2011 12/07/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.05	0.15	Earthen Levee	Encroachments	WS	M	Equipment	39.573523 ° -121.701387 °	39.572455 ° -121.702370 °	1
2	0.58	0.58	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection.	39.566448 ° -121.702428 °	39.566448 ° -121.702428 °	15
3	4.58	5.00	Earthen Levee	Encroachments	WS	M	Garbage	39.526858 ° -121.689360 °	39.537468 ° -121.690882 °	911 Y
4	4.83	4.83	Earthen Levee	Encroachments	WS	PO	Agricultural Ditch	39.534150 ° -121.690413 °	39.534105 ° -121.690415 °	11
5	5.15	5.15	Earthen Levee	Encroachments	WS	M	Garbage	39.526938 ° -121.689597 °	39.526938 ° -121.689597 °	9 Y
6	6.23	7.62	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.520843 ° -121.706345 °	39.502958 ° -121.716953 °	12 Y
7	10.14	10.64	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.471517 ° -121.739433 °	39.465113 ° -121.743592 °	13 Y
8	10.70	11.79	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.464305 ° -121.744172 °	39.450333 ° -121.753157 °	18 Y
9	13.55	14.10	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.428192 ° -121.768443 °	39.406240 ° -121.794863 °	19 Y
10	15.28	15.28	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.409567 ° -121.789558 °	39.409567 ° -121.789558 °	16 Y
11	17.05	18.93	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	° °	39.389187 ° -121.821233 °	20 Y
12	18.13	18.13	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.396518 ° -121.809845 °	39.396518 ° -121.809845 °	10 Y
13	19.58	20.15	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.383252 ° -121.830565 °	39.378192 ° -121.838543 °	21 Y
14	21.72	22.08	Earthen Levee	Erosion / Bank Caving	WS	A	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Repaired by Sutter Yard.	39.365167 ° -121.861810 °	39.362497 ° -121.867338 °	23 Y
15	21.72	22.08	Earthen Levee	Erosion / Bank Caving	WS	C	Schedule repair of erosion site prior to the next inspection.	39.365167 ° -121.861810 °	39.362378 ° -121.867338 °	17
16	22.38	22.38	Earthen Levee	Encroachments	LS	PO	Landscaping	39.359982 ° -121.871958 °	39.359982 ° -121.871958 °	4 Y
17	22.42	22.42	Earthen Levee	Encroachments	LS	M	Prunings	39.359707 ° -121.872555 °	39.359707 ° -121.872555 °	8 Y
18	22.69	22.69	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection.	39.357348 ° -121.876848 °	39.357348 ° -121.876848 °	3

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal						Left	23.10	12/07/2011 12/07/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	22.70	22.70	Earthen Levee	Erosion / Bank Caving	LS	A	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Repaired by Sutter Yard.	39.357388 ° -121.877060 °	39.357388 ° -121.877060 °	24 Y
20	22.74	22.83	Earthen Levee	Erosion / Bank Caving	LS	A	Schedule repair of erosion site prior to the next inspection.	39.357083 ° -121.877747 °	39.356643 ° -121.878682 °	6 Y
21	22.83	22.85	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	39.356498 ° -121.879030 °	39.356303 ° -121.879417 °	7 Y
22	22.83	22.83	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection.	39.356457 ° -121.879178 °	39.356457 ° -121.879178 °	2

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	4.58
End Levee Mile	5.00
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of AG ditch along the toe.

rduffey_f_20110927_445.jpg



Levee Mile Report Line	5
Start Levee Mile	5.15
End Levee Mile	5.15
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of pruning & debris.

rduffey_f_20110927_435.jpg



Levee Mile Report Line	6
Start Levee Mile	6.23
End Levee Mile	7.62
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_436.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	10.14
End Levee Mile	10.64
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_437.jpg



Levee Mile Report Line	8
Start Levee Mile	10.70
End Levee Mile	11.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_441.jpg



Levee Mile Report Line	9
Start Levee Mile	13.55
End Levee Mile	14.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_442.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	15.28
End Levee Mile	15.28
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of a squirrel hole along the slope.

rduffey_f_20110927_439.jpg



Levee Mile Report Line	11
Start Levee Mile	17.05
End Levee Mile	18.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_443.jpg



Levee Mile Report Line	12
Start Levee Mile	18.13
End Levee Mile	18.13
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes along the L/S slope.

rduffey_f_20111208_578.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	19.58
End Levee Mile	20.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the toe.

rduffey_f_20110927_444.jpg



Levee Mile Report Line	14
Start Levee Mile	21.72
End Levee Mile	22.08
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion repaired by Sutter Yard.

rduffey_f_20111208_579.jpg



Levee Mile Report Line	16
Start Levee Mile	22.38
End Levee Mile	22.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of landscaping along the toe.

rduffey_f_20110927_431.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	17
Start Levee Mile	22.42
End Levee Mile	22.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the debris & prunings.

rduffey_f_20110927_434.jpg



Levee Mile Report Line	19
Start Levee Mile	22.70
End Levee Mile	22.70
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion repaired by Sutter Yard.

rduffey_f_20111208_580.jpg



Levee Mile Report Line	20
Start Levee Mile	22.74
End Levee Mile	22.83
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion repaired by Sutter Yard.

rduffey_f_20111208_581.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	23.10	12/07/2011 12/07/2011	Bob Duffey

Levee Mile Report Line	21
Start Levee Mile	22.83
End Levee Mile	22.85
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the along the canal.

rduffey_f_20110927_433.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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